

AMENDMENTS TO THE CLAIMS

Claims 1-5 (cancelled)

6. (Previously presented) A cosmetic composition which comprises a copolymer which consists essentially of

30 to 59% by weight of vinylcaprolactam (monomer A),

40 to 69% by weight of vinylpyrrolidone (monomer B),

1 to 4% by weight of vinylimidazole (monomer C),

0 to 10% by weight of monomer D,

0 to 10% by weight (based on the total amount of monomer) of polymer E,

where the weight ratio of monomer C to monomer B is less than or equal to 1:15, in hair cosmetics.

7. (cancelled)

8. (Previously presented) The composition according to claim 6, wherein said composition is used in hair cosmetics.

9. (Previously presented) The composition according to claim 6, wherein said composition is used in hair-setting compositions or hair shampoo.

10. (Previously presented) The composition according to claim 6, wherein said composition is used in skin cosmetic preparations.

11. (Previously presented) A hair-setting preparation, in the form of a foam, mousse, spray or gel, where the active constituent used is a polymer according to claim 6.

12. (Previously presented) The composition according to claim 6, where the copolymer which consists essentially of

35 to 50% by weight	monomer A
49 to 62% by weight	monomer B
1 to 3% by weight	monomer C
0 to 10% by weight	of monomer D
0 to 10% by weight	(based on the total amount of monomer) of polymer E,

where the weight ratio of monomer C to monomer B is less than or equal to 1:16.

13. (Previously Presented) The composition according to claim 12, wherein the weight ratio of monomer C to monomer B is less than or equal to 1:23.

14. (Previously presented) The composition according to claim 6, which further requires monomer D to be present in an amount not more than 5% by weight.

15. (Previously presented) The composition according to claim 6, which further requires polymer E to be present in an amount not more than 10% by weight.

16. (Previously presented) The composition according to claim 14, wherein monomer D comprises

a) ethylenically unsaturated monomer of the formula:

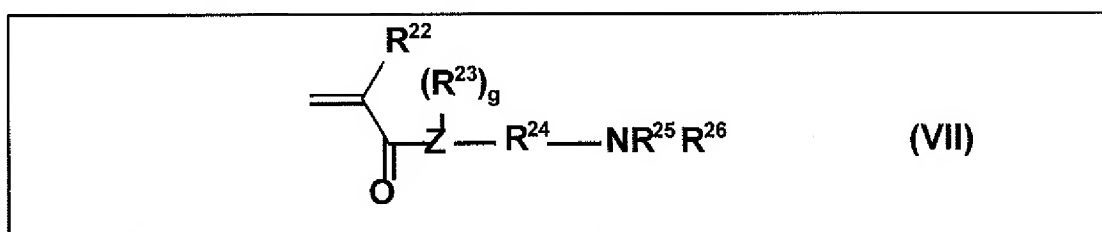


where

X is a radical -OH, -OM, -OR²¹, NH₂, -NHR²¹, N(R²¹)₂;

M is a cation selected from the group consisting of Na⁺, K⁺, Mg⁺⁺, Ca⁺⁺, Zn⁺⁺, NH₄⁺, alkylammonium, dialkylammonium, trialkylammonium and tetraalkylammonium;

the radicals R^{21} may be identical or different and are -H, C_1 - C_{40} linear- or branched-chain alkyl radicals, N,N-dimethylaminoethyl, 2-hydroxyethyl, 2-methoxyethyl, 2-ethoxyethyl, hydroxypropyl, methoxypropyl or ethoxypropyl, and R^{20} and R^{19} are independently of one another -H, C_1 - C_8 linear- or branched-chain alkyl chains, methoxy, ethoxy, 2-hydroxyethoxy, 2-methoxyethoxy or 2-ethoxyethyl, b) N,N-dialkylaminoalkyl acrylate, methacrylate or N-dialkylaminoalkylacrylamide or -methacrylamides of the formula (VII)

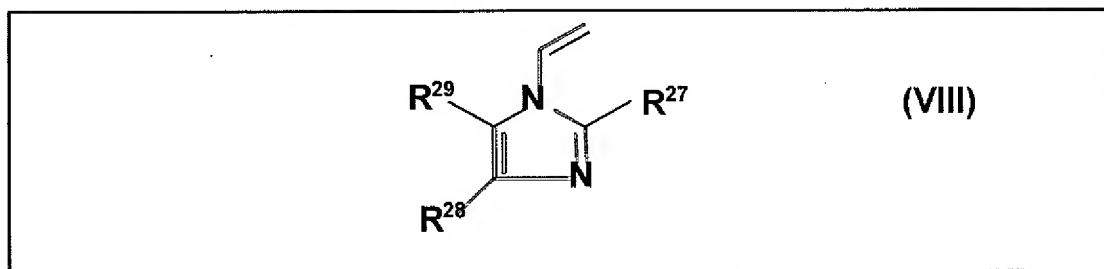


wherein

- R^{22} is H, alkyl having 1 to 8 carbon atoms,
 R^{23} is H, methyl,
 R^{24} is alkylene having 1 to 24 carbon atoms, optionally substituted by alkyl,
 R^{25}, R^{26} is C_1 - C_{40} alkyl radical,
 Z is nitrogen when $g = 1$ or oxygen when $g = 0$,

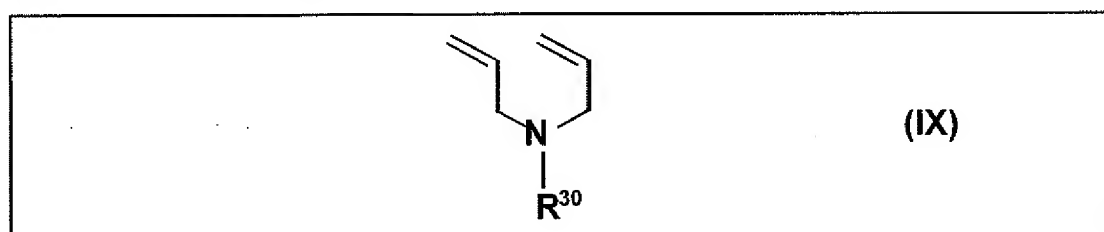
c) substituted acrylic acids, and salts, esters and amides thereof, where the substituents on the carbon atoms are in the two or three position on the acrylic acid, and are independently of one another C_1 - C_4 alkyl, -CN or COOH,

d) allyl esters of C_1 - C_{40} linear, C_3 - C_{40} branched-chain or C_3 - C_{40} carbocyclic carboxylic acid, vinyl or allyl halide, vinyl ether, vinyl- or allyl-substituted heterocyclic compound, N-vinylimidazole derivatives of the formula VIII,



in which R^{27} to R^{29} , independently of one another, are hydrogen, C_1 - C_4 -alkyl or phenyl:

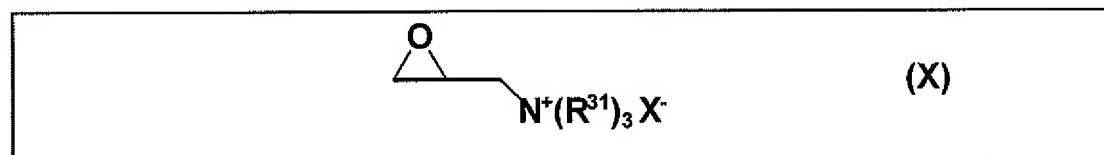
e) diallylamine of the formula (IX)



where $R^{30} = C_1$ - to C_{24} -alkyl,

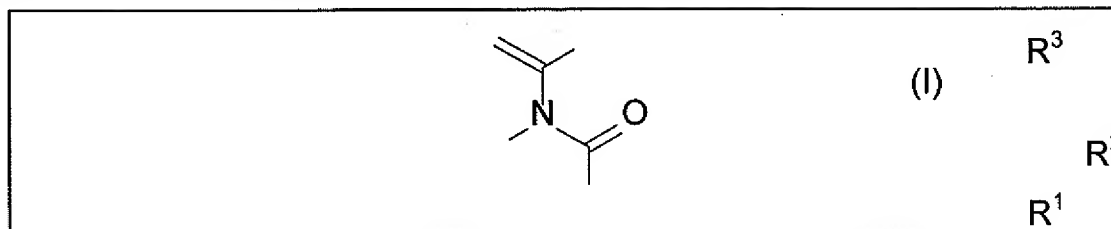
f) vinylidene chloride; and hydrocarbon having at least one carbon-carbon double bond,

g) the reaction products of unsaturated acid with a quaternized epichlorohydrin of the formula (X)



wherein $R^{31} = C_1$ - to C_{40} -alkyl and X is defined above

h) open-chain N-vinylamide compounds of the general formula (I)



where R^1 , R^2 , R^3 = H or C_1 - to C_6 -alkyl, or

i) polyether acrylate.

17. (Previously presented) The composition according to claim 15, wherein polymer E consists essentially of

- E1) polyether-containing compounds,
- E2) polymers which contain at least 5% by weight of vinylpyrrolidone units in copolymerized form,
- E3) polymers which contain at least 50% by weight of vinyl alcohol units or
- E4) natural substances E4) which contain saccharide structures.

18. (Previously presented) The composition according to claim 14, which further requires polymer E to be present in an amount not more than 10% by weight.

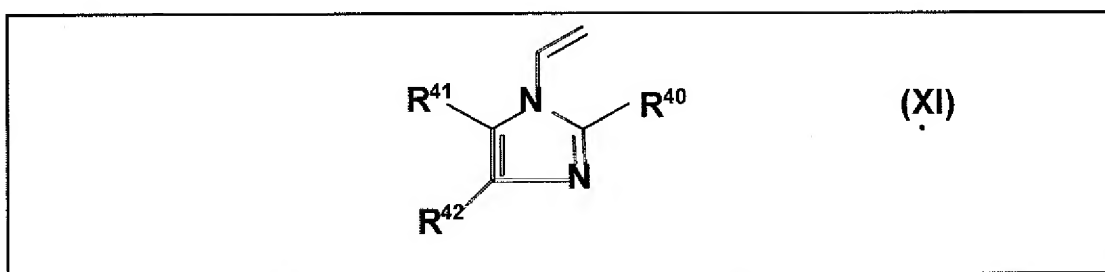
19. (Previously presented) The composition according to claim 18, wherein polymer E consists essentially of

- E1) polyether-containing compounds,
- E2) polymers which contain at least 5% by weight of vinylpyrrolidone units in copolymerized form,
- E3) polymers which contain at least 50% by weight of vinyl alcohol units or
- E4) natural substances E4) which contain saccharide structures.

20. (Previously presented) The composition according to claim 16, which further requires polymer E is present and polymer E consists essentially of

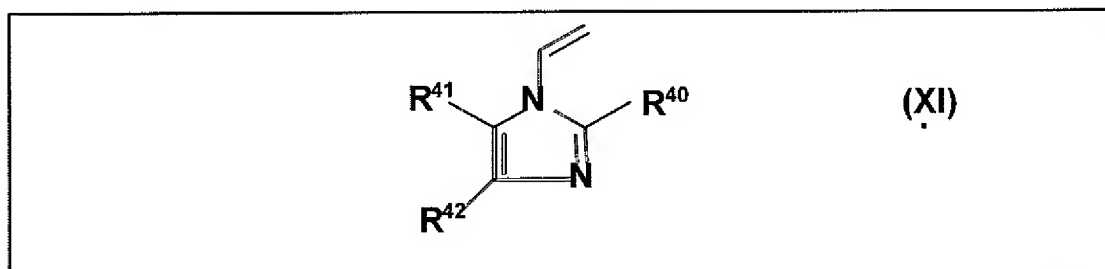
- E1) polyether-containing compounds,
- E2) polymers which contain at least 5% by weight of vinylpyrrolidone units in copolymerized form,
- E3) polymers which contain at least 50% by weight of vinyl alcohol units or
- E4) natural substances E4) which contain saccharide structures.

21. (Previously presented) The composition according to claim 6, wherein component C is a vinylimidazole of the formula XI,



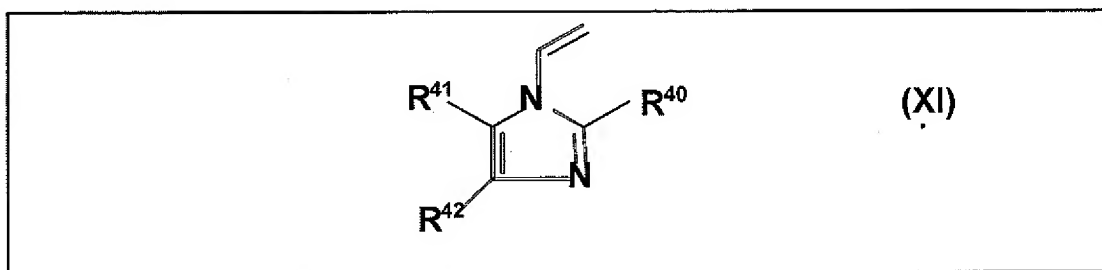
in which R^{40} to R^{42} , independently of one another, are hydrogen, C_1 - C_4 -alkyl or phenyl.

22. (Previously presented) The composition according to claim 12, wherein component C is a vinylimidazole of the formula XI,



in which R^{40} to R^{42} , independently of one another, are hydrogen or methyl.

23. (Previously presented) The composition according to claim 20, wherein component C is a vinylimidazole of the formula XI,



in which R^{40} to R^{42} , independently of one another, are hydrogen or methyl.

24. (Previously presented) A cosmetic composition which consists essentially of a copolymer which consists essentially of

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|---------------------|--|
| 30 to 59% by weight | of vinylcaprolactam (monomer A), |
| 40 to 69% by weight | of vinylpyrrolidone (monomer B), |
| 1 to 4% by weight | of vinylimidazole (monomer C), |
| 0 to 10% by weight | of monomer D, |
| 0 to 10% by weight | (based on the total amount of monomer) of polymer E, |

where the weight ratio of monomer C to monomer B is less than or equal to 1:15, in hair cosmetics and the ratio of monomer A to monomer C is at least 11:1.

25. (New) The composition according to claim 24, where the copolymer which consists essentially of

- | | |
|---------------------|---|
| 35 to 50% by weight | monomer A |
| 49 to 62% by weight | monomer B |
| 1 to 3% by weight | monomer C |
| 0 to 10% by weight | of monomer D |
| 0 to 10% by weight | (based on the total amount of monomer)
of polymer E, |

where the weight ratio of monomer C to monomer B is less than or equal to 1:16.

26. (New) The composition according to claim 6, wherein the copolymer which consists essentially of

35 to 45% by weight	monomer A
52.5 to 62.5% by weight	monomer B
1.5 to 3.5% by weight	monomer C
0 to 10% by weight	of monomer D
0 to 10% by weight	(based on the total amount of monomer) of polymer E.

27 (New) The composition according to claim 23, wherein the copolymer which consists essentially of

35 to 45% by weight	monomer A
52.5 to 62.5% by weight	monomer B
1.5 to 3.5% by weight	monomer C
0 to 10% by weight	of monomer D
0 to 10% by weight	(based on the total amount of monomer) of polymer E.